

## EAST Search History

| Ref # | Hits | Search Query  | DBs                    | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------|------------------|---------|------------------|
| S7    | 2538 | ((118/728) or (156/345.51-345.53) or (204/298.11) or (204/298.15)).CCLS.  | US-PGPUB; USPAT        | OR               | OFF     | 2006/08/09 12:07 |
| S8    | 0    | S7 and (trench with collect\$3 with (edge periph\$4))   | US-PGPUB; USPAT        | OR               | ON      | 2005/04/30 21:36 |
| S9    | 2    | S7 and (trench with collect\$3)   | US-PGPUB; USPAT        | OR               | ON      | 2005/04/30 21:17 |
| S10   | 7    | S7 and (cover with collect\$3)  | US-PGPUB; USPAT        | OR               | ON      | 2005/04/30 21:23 |
| S11   | 24   | ((substrate wafer workpiece semiconductor) with (susceptor pedest al pedestal table support) with cover with collect\$3)  | US-PGPUB; USPAT        | OR               | ON      | 2005/04/30 21:24 |
| S12   | 29   | ((substrate wafer workpiece semiconductor) with (susceptor pedest al pedestal table support holder) with cover with collect\$3)   | US-PGPUB; USPAT        | OR               | ON      | 2005/05/01 15:34 |
| S13   | 28   | ((substrate wafer workpiece semiconductor) with (susceptor pedest al pedestal table support holder) with cover with collect\$3)   | EPO; JPO; DERWENT      | OR               | ON      | 2005/04/30 21:35 |
| S14   | 2422 | ((substrate wafer workpiece semiconductor) with (susceptor pedest al pedestal table support holder) with cover)   | EPO; JPO; DERWENT      | OR               | ON      | 2005/04/30 21:35 |
| S15   | 0    | ((substrate wafer workpiece semiconductor) with (susceptor pedest al pedestal table support holder) with cover with trench with (excess extra))                           | EPO; JPO; DERWENT      | OR               | ON      | 2005/04/30 21:36 |
| S16   | 19   | S7 and (trench with (edge periph\$4))   | US-PGPUB; USPAT        | OR               | ON      | 2005/04/30 21:37 |
| S17   | 2    | S7 and (trench with (excess extra))   | US-PGPUB; USPAT        | OR               | ON      | 2005/04/30 21:36 |
| S18   | 10   | ("5271788"   "5411624"   "5529657"   "5556500"   "5660673"   "5716486"   "5904799"   "6074488"   "6096161"   "6117349").PN.   | US-PGPUB; USPAT; USOCR | OR               | ON      | 2005/04/30 21:48 |
| S19   | 2    | ("6344105").URPN.   | USPAT                  | OR               | ON      | 2005/04/30 22:03 |
| S20   | 4    | ((("5923521") or ("5668524") or ("5431737") or ("6281144"))).PN.  | US-PGPUB; USPAT        | OR               | OFF     | 2005/04/30 22:03 |
| S21   | 1    | ("6344105").PN.   | US-PGPUB; USPAT        | OR               | OFF     | 2005/05/01 15:21 |
| S22   | 2    | ("6344105").URPN.   | USPAT                  | OR               | ON      | 2005/05/01 15:24 |
| S23   | 11   | ((("5656093") or ("5897752") or ("6033480") or ("6063441") or ("6165276") or ("6231674") or ("6296747") or ("5923521") or ("5668524") or ("5431737") or ("6281144"))).PN. | US-PGPUB; USPAT        | OR               | OFF     | 2005/08/24 14:13 |
| S24   | 104  | ((substrate wafer workpiece semiconductor) with (susceptor pedest al pedestal table support holder chuck) with cover with electrostatic)                                  | US-PGPUB; USPAT        | OR               | ON      | 2005/05/01 16:41 |
| S25   | 88   | ((substrate wafer workpiece semiconductor) with (susceptor pedest al pedestal table support holder chuck) with cover with electrostatic)                                  | EPO; JPO; DERWENT      | OR               | ON      | 2005/05/01 15:34 |
| S26   | 136  | ((substrate wafer workpiece semiconductor) with (susceptor pedest al pedestal table support holder chuck) with cover\$3 with electrostatic)                               | EPO; JPO; DERWENT      | OR               | ON      | 2005/05/01 15:35 |
| S27   | 136  | ((substrate wafer workpiece semiconductor) with (susceptor pedest al pedestal table support holder chuck) with cover\$3 with electrostatic)                               | EPO; JPO; DERWENT      | OR               | ON      | 2005/05/01 16:41 |
| S28   | 303  | ((substrate wafer workpiece semiconductor) with (susceptor pedest al pedestal table support holder chuck) with cover\$3 with electrostatic)                               | US-PGPUB; USPAT        | OR               | ON      | 2005/05/01 15:35 |
| S29   | 13   | ((substrate wafer workpiece semiconductor) with ((susceptor* pedest al pedestal table support holder chuck) adj cover\$3) with electrostatic)                             | US-PGPUB; USPAT        | OR               | ON      | 2005/05/01 16:40 |

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|     |     |   |                                |    |     |                  |
|-----|-----|---|--------------------------------|----|-----|------------------|
| S30 | 78  | ("4645218").URPN.   | USPAT                          | OR | ON  | 2005/05/01 15:38 |
| S31 | 86  | ("20020029745"   "3993509"   "4115036"   "4184188"   "4384918"   "4412133"   "4457359"   "4480284"   "4502094"   "4520421"   "4554611"   "4603466"   "4645218"   "4665463"   "4692836"   "4724510"   "4832781"   "4848536"   "4938992"   "5103367"   "5166856"   "5179498"   "5184398"   "5267607"   "5271788"   "5275683"   "5292399"   "5315473"   "5325261"   "5330607"   "5345999"   "5384682"   "5411624"   "5436790"   "5444597"   "5452177"   "5460684"   "5474614"   "5528451"   "5535090"   "5535507"   "5556500"   "5560780"   "5561585"   "5573596"   "5583736"   "5606485"   "5612850"   "5631803"   "5634266"   "5636098"   "5644467"   "5646814"   "5716534"   "5740009"   "5748434"   "5754391"   "5812362"   "5822171"   "5822172"   "5835333"   "5865896"   "5880923"   "5891348"   "5919332"   "5942039"   "5969934"   "6023405"   "6024826"   "6033478"   "6039836"   "6074488"   "6079356"   "6095083"   "6143144"   "6165311"   "6210486"   "6238588"   "6245190"   "6277237"   "6278600"   "6284093"   "6328808"   "6344105"   "6362946"   "6364957").PN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2005/05/01 16:14 |
| S32 | 4   | ("4184188"   "4384918"   "4502094"   "4554611").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2005/05/01 16:37 |
| S33 | 5   | ((substrate wafer workpiece semiconductor) with ((susceptor pedestal pedestal table support holder chuck) adj cover\$3) with electrostatic)   | EPO; JPO;<br>DERWENT           | OR | ON  | 2005/05/01 16:40 |
| S34 | 48  | (US-20030089457-\$ or US-20030211757-\$ or US-20040040663-\$ or US-20040089542-\$ or US-20040200412-\$ or US-20040226516-\$ or US-20050000449-\$ or US-20050005859-\$).did. or (US-5188501-\$ or US-5529657-\$ or US-5556500-\$ or US-5885425-\$ or US-6096161-\$ or US-6113736-\$ or US-6117349-\$ or US-6201208-\$ or US-6222161-\$ or US-6235146-\$ or US-6344105-\$ or US-6623597-\$ or US-6682603-\$ or US-6797131-\$ or US-6656093-\$ or US-6685524-\$ or US-4645218-\$ or US-5280156-\$ or US-5486975-\$ or US-5560780-\$ or US-5581874-\$ or US-5606485-\$ or US-5729423-\$ or US-5801915-\$ or US-5942039-\$ or US-6159299-\$).did. or (US-6554954-\$ or US-4665463-\$ or US-5275683-\$ or US-5636098-\$ or US-6033478-\$ or US-6039836-\$ or US-6284093-\$ or US-6813134-\$).did. or (GB-2401722-\$ or EP-171011-\$ or JP-06204180-\$ or JP-07335732-\$ or JP-2004253402-\$ or US-20040040665-\$).did.  | US-PGPUB;<br>USPAT;<br>DERWENT | OR | ON  | 2005/05/01 17:04 |
| S35 | 296 | S28 not S34   | US-PGPUB;<br>USPAT             | OR | ON  | 2005/05/01 17:04 |
| S36 | 14  | ("5777838").URPN.   | USPAT                          | OR | ON  | 2005/05/01 17:17 |
| S37 | 14  | ("5777838").URPN.   | USPAT                          | OR | ON  | 2005/05/01 17:19 |
| S38 | 1   | ("5905626").URPN.   | USPAT                          | OR | ON  | 2005/05/01 17:23 |
| S39 | 13  | ("4480284"   "5055964"   "5073716"   "5099571"   "5151845"   "5463526"   "5467249"   "5535090"   "5535507"   "5560780"   "5572398"   "5656903"   "5691876").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2005/05/01 17:23 |
| S40 | 14  | 118/726.cds. and ((cover) with (pedestal pedestal chuck susceptor holder table))  | US-PGPUB;<br>USPAT             | OR | ON  | 2005/08/22 18:08 |
| S41 | 10  | 118/726.cds. and ((trench channel) with (pedestal pedestal chuck susceptor holder table))   | US-PGPUB;<br>USPAT             | OR | ON  | 2005/08/22 18:08 |
| S42 | 944 | ((204/298.11) or (204/298.15)).CCLS.  | US-PGPUB;<br>USPAT             | OR | OFF | 2005/08/23 17:09 |
| S43 | 215 | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) same ((shield\$3 cover\$3) near1 (support\$3 hold\$3 susceptor chuck pedestal pedestal table))  | US-PGPUB;<br>USPAT             | OR | ON  | 2005/08/23 17:19 |

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|     |      |  |                        |    |    |                  |
|-----|------|--|------------------------|----|----|------------------|
| S44 | 3    | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) same ((shield\$3 cover\$3) near1 (support\$3 hold\$3 susceptor chuck pedestal pedestal table)) same (stainless with steel)   | US-PGPUB; USPAT        | OR | ON | 2005/08/23 17:12 |
| S45 | 4    | ("6030509").URPN.  | USPAT                  | OR | ON | 2005/08/23 17:15 |
| S46 | 6    | ("5096536"   "5725740"   "5736021"   "5810931"   "5843520"   "5873983").PN.  | US-PGPUB; USPAT; USOCR | OR | ON | 2005/08/23 17:15 |
| S47 | 14   | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) same ((shield\$3 cover\$3) near1 (support\$3 hold\$3 susceptor chuck pedestal pedestal table)) same (crevice channel trough groove)  | US-PGPUB; USPAT        | OR | ON | 2005/08/23 17:17 |
| S48 | 77   | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) same (((shield\$3 cover\$3) near1 (support\$3 hold\$3 susceptor chuck pedestal pedestal table)) with (wafer substrate workpiece semiconductor))                                  | US-PGPUB; USPAT        | OR | ON | 2005/08/23 17:33 |
| S49 | 4    | ("4632719"   "5698036"   "5863843"   "5879128").PN.  | US-PGPUB; USPAT; USOCR | OR | ON | 2005/08/23 17:24 |
| S50 | 46   | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) and (((shield\$3 cover\$3) near1 (support\$3 hold\$3 susceptor chuck pedestal pedestal table)) with (wafer substrate workpiece semiconductor))                                   | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:42 |
| S51 | 23   | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) and (surface with (groove trench crevice) with (support\$3 hold\$3 susceptor chuck pedestal pedestal table) with (wafer substrate workpiece semiconductor))                      | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:43 |
| S52 | 24   | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) and (surface with (groove trench crevice canal pit) with (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) with (wafer substrate workpiece semiconductor))           | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:43 |
| S53 | 37   | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) and (surface with (groove trench crevice canal pit hollow\$3) with (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) with (wafer substrate workpiece semiconductor)) | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:51 |
| S54 | 75   | (c23c016\$.ipc.) and (surface with (groove trench crevice canal pit hollow\$3) with (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) with (wafer substrate workpiece semiconductor))  | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:52 |
| S55 | 56   | (c23c014\$.ipc.) and (surface with (groove trench crevice canal pit hollow\$3) with (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) with (wafer substrate workpiece semiconductor))  | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:51 |
| S56 | 118  | S54 S55  | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:52 |
| S57 | 4    | (c23c016\$.ipc.) and (surface and (groove trench crevice canal pit hollow\$3) and collect\$3 and (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) and (wafer substrate workpiece semiconductor))                                  | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:56 |
| S58 | 3    | (c23c014\$.ipc.) and (surface and (groove trench crevice canal pit hollow\$3) and collect\$3 and (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) and (wafer substrate workpiece semiconductor))                                  | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:53 |
| S59 | 4900 | S57 a7   | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:53 |
| S60 | 7    | S57 S58  | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:53 |
| S61 | 2    | (118/715-733.ccls. 204/298\$.ccls.) and (surface and (groove trench crevice canal pit hollow\$3) and collect\$3 and (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) and (wafer substrate workpiece semiconductor))               | EPO; JPO; DERWENT      | OR | ON | 2005/08/23 17:58 |

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|     |      |  |                        |    |     |                  |
|-----|------|--|------------------------|----|-----|------------------|
| S62 | 711  | (118/715-733.ccls. 204/298.\$ccls.) and (surface and (groove trench crevice canal pit hollow\$3) and collect\$3 and (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) and (wafer substrate workpiece semiconductor))                   | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 17:58 |
| S63 | 3    | (118/715-733.ccls. 204/298.\$ccls.) and (surface with (groove trench crevice canal pit hollow\$3) with collect\$3 with (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) with (wafer substrate workpiece semiconductor))               | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 17:58 |
| S64 | 24   | (surface with (groove trench crevice canal pit hollow\$3) with collect\$3 with (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) with (wafer substrate workpiece semiconductor))   | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 18:08 |
| S65 | 8    | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) and ( (groove trench crevice canal pit hollow\$3) with collect\$3 with (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) with (wafer substrate workpiece semiconductor)) | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 18:03 |
| S66 | 1    | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) and ( (build adj up) with collect\$3 with (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) with (wafer substrate workpiece semiconductor))                              | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 18:04 |
| S67 | 0    | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) same ( (build\$3 adj up) with collect\$3 with (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) )  | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 18:05 |
| S68 | 115  | ( (build\$3 adj up) with collect\$3 with (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) )   | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 18:07 |
| S69 | 12   | ( (build\$3 adj up) with collect\$3 with (support\$3 hold\$3 susceptor chuck pedestal pedestal table ) ) same (coat\$3 deposit\$3)   | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 18:07 |
| S70 | 1840 | ((118/728) or (156/345.51-345.53)).CCLS.   | US-PGPUB; USPAT        | OR | OFF | 2005/08/23 18:06 |
| S71 | 0    | S68 and S70  | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 18:08 |
| S72 | 1677 | S70 not S42  | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 18:08 |
| S73 | 4    | (surface with (groove trench crevice canal pit hollow\$3) with collect\$3 ) and S72  | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 18:10 |
| S74 | 569  | (sputter\$3 spatter\$3 (physical with vapor with deposit\$4)) and S72  | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 18:10 |
| S75 | 128  | ((shield\$3 cover\$3) near1 (support\$3 hold\$3 susceptor chuck pedestal pedestal table)) and S72  | US-PGPUB; USPAT        | OR | ON  | 2005/08/23 18:11 |
| S76 | 2    | ("5078851"   "5147497").PN.  | US-PGPUB; USPAT; USOCR | OR | ON  | 2005/08/23 18:15 |
| S77 | 60   | ("5275683").URPN.  | USPAT                  | OR | ON  | 2005/08/23 18:16 |
| S78 | 0    | ("6531686").URPN.  | USPAT                  | OR | ON  | 2005/08/23 18:33 |
| S79 | 7    | ("5275683"   "5376213"   "5556476"   "5606485"   "5625526"   "5698062"   "6104596").PN.  | US-PGPUB; USPAT; USOCR | OR | ON  | 2005/08/23 18:34 |
| S80 | 2    | ("5078851"   "5147497").PN.  | US-PGPUB; USPAT; USOCR | OR | ON  | 2005/08/23 18:35 |
| S81 | 4    | ("4632719"   "5698036"   "5863843"   "5879128").PN.  | US-PGPUB; USPAT; USOCR | OR | ON  | 2005/08/23 18:50 |
| S82 | 1    | ("5554266").PN.  | US-PGPUB; USPAT        | OR | OFF | 2005/08/24 10:43 |

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|     |      |  |  |    |     |                  |
|-----|------|--|--|----|-----|------------------|
| S83 | 84   | (US-20010039161-\$ or US-20030089457-\$ or US-20030164226-\$ or US-20030211757-\$ or US-20040040663-\$ or US-20040089542-\$ or US-20040094095-\$ or US-20040200412-\$ or US-20040226516-\$ or US-20040229477-\$ or US-20050000449-\$ or US-20050005859-\$).did. or (US-4645218-\$ or US-4665463-\$ or US-5103367-\$ or US-5188501-\$ or US-5252134-\$ or US-5275683-\$ or US-5280156-\$ or US-5460684-\$ or US-5463526-\$ or US-5486975-\$ or US-5505782-\$ or US-5529657-\$ or US-5556500-\$ or US-5560780-\$ or US-5581874-\$ or US-5589003-\$ or US-5591269-\$ or US-5606485-\$ or US-5631803-\$ or US-5634266-\$ or US-5636098-\$ or US-5656093-\$ or US-5668524-\$ or US-5688358-\$ or US-5698037-\$ or US-5729423-\$).did. or (US-5777838-\$ or US-5801915-\$ or US-5885425-\$ or US-5886863-\$ or US-5895549-\$ or US-5905626-\$ or US-5942039-\$ or US-6030509-\$ or US-6033478-\$ or US-6039836-\$ or US-6051815-\$ or US-6074488-\$ or US-6096161-\$ or US-6113736-\$ or US-6117246-\$ or US-6117349-\$ or US-6159299-\$ or US-6201208-\$ or US-6222161-\$ or US-6235146-\$ or US-6243251-\$ or US-6284093-\$ or US-6344105-\$ or US-6350698-\$ or US-6531686-\$ or US-6554954-\$ or US-6623597-\$).did. or (US-6682603-\$ or US-6797131-\$ or US-6813134-\$ or US-6839217-\$ or US-6863281-\$).did. or (JP-59052834-\$).did. or (EP-171011-\$ or JP-03013577-\$ or JP-06204180-\$ or JP-07335732-\$ or US-5589003-\$ or US-6030509-\$ or EP-1115140-\$ or JP-2002009002-\$ or KR-2002061878-\$ or US-20040040665-\$ or JP-2004253402-\$ or GB-2401722-\$ or KR-2004100712-\$). did. | US-PGPUB;<br>USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2005/08/24 10:50 |
| S84 | 7    | S83 and pad  | US-PGPUB;<br>USPAT                     | OR | ON  | 2005/08/24 10:51 |
| S85 | 2621 | ((118/728) or (156/345.51-345.53) or (204/298.11) or (204/298.15)).CCLS.   | US-PGPUB;<br>USPAT                     | OR | OFF | 2005/08/24 13:51 |
| S86 | 50   | S85 and ((stainless with steel) and pad)   | US-PGPUB;<br>USPAT                     | OR | ON  | 2005/08/24 10:55 |
| S87 | 55   | ("5656093").URPN.  | USPAT                                  | OR | ON  | 2005/08/24 11:00 |
| S88 | 6    | ("5841624").URPN.  | USPAT                                  | OR | ON  | 2005/08/24 11:05 |
| S89 | 20   | ("3571678"   "4184188"   "4213698"   "4384918"   "4412133"   "4480284"   "4502094"   "4520421"   "4551192"   "4897171"   "5155652"   "5191506"   "5207437"   "5413360"   "5522131"   "5539179"   "5560780"   "5583736"   "5656093"   "5745332").PN.  | US-PGPUB;<br>USPAT;<br>USOCR           | OR | ON  | 2005/08/24 11:06 |
| S90 | 19   | S85 and ((channel groove crevice) with (collect\$3))   | US-PGPUB;<br>USPAT                     | OR | ON  | 2005/08/24 11:40 |
| S91 | 8    | ("5352294"   "5494523"   "5516367"   "5632873"   "5645646"   "5904779"   "5935338"   "5935397").PN.  | US-PGPUB;<br>USPAT;<br>USOCR           | OR | ON  | 2005/08/24 11:38 |
| S92 | 7    | ("6146504").URPN.  | USPAT                                  | OR | ON  | 2005/08/24 11:39 |
| S93 | 297  | S85 and ((channel groove crevice) with (peripher\$4 circumfer\$6))   | US-PGPUB;<br>USPAT                     | OR | ON  | 2005/08/24 11:41 |
| S94 | 345  | S85 and ((channel groove crevice) with (outside peripher\$4 circumfer\$6))   | US-PGPUB;<br>USPAT                     | OR | ON  | 2005/08/24 11:42 |
| S95 | 153  | S85 and ((channel groove crevice) with (outside peripher\$4 circumfer\$6) with surface)  | US-PGPUB;<br>USPAT                     | OR | ON  | 2005/08/24 11:42 |
| S96 | 78   | S85 and ((support\$3 hold\$3 table susceptor chuck pedestal pedestal) with (channel groove crevice) with (outside peripher\$4 circumfer\$6) with surface)  | US-PGPUB;<br>USPAT                     | OR | ON  | 2005/08/24 11:43 |

## EAST Search History

|          |         |  |                              |    |    |                  |
|----------|---------|--|------------------------------|----|----|------------------|
| S97      | 10      | ("5271788"   "5411624"   "5529657"   "5556500"   "5660673"   "5716486"   "5904799"   "6074488"   "6096161"   "6117349").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 11:59 |
| S98      | 2       | ("6344105").URPN.  | USPAT                        | OR | ON | 2005/08/24 12:00 |
| S99      | 3       | ("5474649"   "5789324"   "6344105").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:00 |
| S10<br>0 | 0       | ("6623597").URPN.  | USPAT                        | OR | ON | 2005/08/24 12:01 |
| S10<br>1 | 7       | ("5275683"   "5376213"   "5556476"   "5606485"   "5625526"   "5698062"   "6104596").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:02 |
| S10<br>2 | 0       | ("6531686").URPN.  | USPAT                        | OR | ON | 2005/08/24 12:03 |
| S10<br>3 | 11      | ("20020162629"   "5238499"   "5374594"   "5761023"   "5841623"   "6175485"   "6254745"   "6310755"   "6364958"   "6383954"   "6416634").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:05 |
| S10<br>4 | 0       | ("6682603").URPN.  | USPAT                        | OR | ON | 2005/08/24 12:06 |
| S10<br>5 | 5       | ("5178739"   "5614071"   "6149784"   "6394023"   "6428663").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:14 |
| S10<br>6 | 251     | (wafer substrate semiconductor workpiece) with (cover\$3 shield\$3 protect\$3) with (detach\$4 remov\$4 replac\$4) with (collect\$3 build\$3up)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:16 |
| S10<br>7 | 16      | (118/715-733.cds: 204/298.\$ccls. "427"/\$.ccls.) and (wafer substrate semiconductor workpiece) with (cover\$3 shield\$3 protect\$3) with (detach\$4 remov\$4 replac\$4) with (collect\$3 build\$3up)                          | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:20 |
| S10<br>8 | 1       | (c23c016\$.ipc. c23c014\$.ipc.) and (wafer substrate semiconductor workpiece) with (cover\$3 shield\$3 protect\$3) with (detach\$4 remov\$4 replac\$4) with (collect\$3 build\$3up)  | EPO; JPO;<br>DERWENT         | OR | ON | 2005/08/24 12:20 |
| S10<br>9 | 2006    | (wafer substrate semiconductor workpiece) with (cover\$3 shield\$3 protect\$3) with (detach\$4 remov\$4 replac\$4) with (support\$3 susceptor hold\$3 table chuck pedestal pedestal)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:21 |
| S11<br>0 | 4       | (wafer substrate semiconductor workpiece) with (cover\$3 shield\$3 protect\$3) with (detach\$4 remov\$4 replac\$4) with (support\$3 susceptor hold\$3 table chuck pedestal pedestal) with (recess\$3 groov\$3) with collect\$3 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:23 |
| S11<br>1 | 28      | (wafer substrate semiconductor workpiece) same (cover\$3 shield\$3 protect\$3) same (detach\$4 remov\$4 replac\$4) same (support\$3 susceptor hold\$3 table chuck pedestal pedestal) same (recess\$3 groov\$3) with collect\$3 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:27 |
| S11<br>2 | 2       | (wafer substrate semiconductor workpiece) same (cover\$3 shield\$3 protect\$3) same (detach\$4 remov\$4 replac\$4) same (support\$3 susceptor hold\$3 table chuck pedestal pedestal) same (recess\$3 groov\$3) with collect\$3 | EPO; JPO;<br>DERWENT         | OR | ON | 2005/08/24 12:25 |
| S11<br>3 | 11      | S85 and ((support\$3 susceptor hold\$3 table chuck pedestal pedestal) same (recess\$3 groov\$3) with collect\$3)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 13:41 |
| S11<br>4 | 7       | S85 and ((surface) same (recess\$3 groov\$3) with collect\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:30 |
| S11<br>5 | 5       | S85 and ((surface) with (recess\$3 groov\$3) with collect\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:31 |
| S11<br>6 | 4827163 | (c23c016\$.ipc. c23c014\$.ipc.) and (surface) and (recess\$3 groov\$3) and collect\$3 (support\$3 susceptor hold\$3 table chuck pedestal pedestal)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/08/24 12:33 |

## EAST Search History

|          |         |   |                        |    |     |                  |
|----------|---------|---|------------------------|----|-----|------------------|
| S11<br>7 | 3491653 | (c23c016\$.ipc. c23c014\$.ipc.) and (surface) and (recess\$3 groov\$3) and collect\$3 (support\$3 susceptor hold\$3 table chuck pedestal pedestal)                            | EPO; JPO; DERWENT      | OR | ON  | 2005/08/24 12:33 |
| S11<br>8 | 10      | (c23c016\$.ipc. c23c014\$.ipc.) and (surface) and (recess\$3 groov\$3) and collect\$3 and (support\$3 susceptor hold\$3 table chuck pedestal pedestal)                        | EPO; JPO; DERWENT      | OR | ON  | 2005/08/24 12:36 |
| S11<br>9 | 2994    | (surface) same (recess\$3 groov\$3) same collect\$3 same (support\$3 susceptor hold\$3 table chuck pedestal pedestal)   | US-PGPUB; USPAT        | OR | ON  | 2005/08/24 12:37 |
| S12<br>0 | 486     | (surface) with (recess\$3 groov\$3) with collect\$3 with (support\$3 susceptor hold\$3 table chuck pedestal pedestal)   | US-PGPUB; USPAT        | OR | ON  | 2005/08/24 12:37 |
| S12<br>1 | 153     | ((surface) with (recess\$3 groov\$3) with collect\$3 with (support\$3 susceptor hold\$3 table chuck pedestal pedestal)) and (coat\$3 deposit)                                 | US-PGPUB; USPAT        | OR | ON  | 2005/08/24 12:37 |
| S12<br>2 | 14      | ((surface) with (recess\$3 groov\$3) with collect\$3 with (support\$3 susceptor hold\$3 table chuck pedestal pedestal)) same(coat\$3 deposit)                                 | US-PGPUB; USPAT        | OR | ON  | 2005/08/24 12:38 |
| S12<br>3 | 14      | ((surface) with (recess\$3 groov\$3) with collect\$3 with (support\$3 susceptor hold\$3 table chuck pedestal pedestal)) same (coat\$3 deposit)                                | US-PGPUB; USPAT        | OR | ON  | 2005/08/24 12:39 |
| S12<br>4 | 141     | S85 and (((circumfer\$4 peripher\$4) with (surface) with (recess\$3 groov\$3))  | US-PGPUB; USPAT        | OR | ON  | 2005/08/24 12:41 |
| S12<br>5 | 24      | S85 and (((circumfer\$4 peripher\$4) with (surface) with (recess\$3 groov\$3)) same (cover\$3 shield\$4 protect\$3))  | US-PGPUB; USPAT        | OR | ON  | 2005/08/24 12:49 |
| S12<br>6 | 11      | ("20020162629"   "5238499"   "5374594"   "5761023"   "5841623"   "6175485"   "6254745"   "6310755"   "6364958"   "6383954"   "6416634").PN.                                   | US-PGPUB; USPAT; USOCR | OR | ON  | 2005/08/24 12:45 |
| S12<br>7 | 0       | ("6682603").URPN.   | USPAT                  | OR | ON  | 2005/08/24 12:46 |
| S12<br>8 | 0       | ("2004/0226516").URPN.  | USPAT                  | OR | ON  | 2005/08/24 12:48 |
| S12<br>9 | 4374    | ((((circumfer\$4 peripher\$4) with (surface) with (recess\$3 groov\$3)) same (cover\$3 shield\$4 protect\$3))   | EPO; JPO; DERWENT      | OR | ON  | 2005/08/24 12:50 |
| S13<br>0 | 2       | c23c016\$.ipc. and (((circumfer\$4 peripher\$4) with (surface) with (recess\$3 groov\$3)) same (cover\$3 shield\$4 protect\$3))   | EPO; JPO; DERWENT      | OR | ON  | 2005/08/24 12:51 |
| S13<br>1 | 9       | c23c016\$.ipc. and (((circumfer\$4 peripher\$4) same (surface) same (recess\$3 groov\$3)) same (cover\$3 shield\$4 protect\$3))   | EPO; JPO; DERWENT      | OR | ON  | 2005/08/24 12:53 |
| S13<br>2 | 20      | c23c016\$.ipc. and (((circumfer\$4 peripher\$4) same (recess\$3 groov\$3)) same (cover\$3 shield\$4 protect\$3))  | EPO; JPO; DERWENT      | OR | ON  | 2005/08/24 12:56 |
| S13<br>3 | 11      | S132 not S131   | EPO; JPO; DERWENT      | OR | ON  | 2005/08/24 12:53 |
| S13<br>4 | 50      | ((circumfer\$4 peripher\$4) same (recess\$3 groov\$3) same (cover\$3 shield\$4 protect\$3) same collect\$3 same (support\$3 susceptor hold\$3 table chuck pedestal pedestal)) | EPO; JPO; DERWENT      | OR | ON  | 2005/08/24 13:31 |
| S13<br>5 | 1       | ("6623597").PN.   | US-PGPUB; USPAT        | OR | OFF | 2005/08/24 13:31 |
| S13<br>6 | 3       | ("5474649"   "5789324"   "6344105").PN.   | US-PGPUB; USPAT; USOCR | OR | ON  | 2005/08/24 13:31 |
| S13<br>7 | 5       | ("4793975"   "4975327"   "5001327"   "5246532"   "5316620").PN.   | US-PGPUB; USPAT; USOCR | OR | ON  | 2005/08/24 13:32 |
| S13<br>8 | 26      | ("5474649").URPN.   | USPAT                  | OR | ON  | 2005/08/24 13:33 |
| S13<br>9 | 3       | ("5474649"   "5789324"   "6344105").PN.   | US-PGPUB; USPAT; USOCR | OR | ON  | 2005/08/24 13:36 |

## EAST Search History

|          |     |   |                              |    |     |                  |
|----------|-----|---|------------------------------|----|-----|------------------|
| S14<br>0 | 10  | ("5271788"   "5411624"   "5529657"   "5556500"   "5660673"   "5716486"   "5904799"   "6074488"   "6096161"   "6117349").PN.                         | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/08/24 13:36 |
| S14<br>1 | 371 | S85 and (cover\$3 with (side side\$1wall) )   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/08/24 13:41 |
| S14<br>2 | 78  | S85 and (cover\$3 with (side side\$1wall) with (prevent\$3 protect\$3 prohibit\$3 ) )   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/08/24 13:42 |
| S14<br>3 | 13  | ("3179213"   "4078812"   "4167351"   "4668373"   "5066381"   "5074456"   "5161908"   "5178681"   "5238499"   "5257872"   "5269894"   "5494523").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/08/24 13:43 |
| S14<br>4 | 12  | ("3663788"   "4703153"   "4778559"   "5231690"   "5252807"   "5280156"   "5306895"   "5350720"   "5354387"   "5558717"   "5705080"   "5720818").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/08/24 13:50 |
| S14<br>5 | 944 | ((204/298.11) or (204/298.15)).CCLS.  | US-PGPUB;<br>USPAT           | OR | OFF | 2005/08/24 13:51 |
| S14<br>6 | 2   | S145 and ((channel recess groove) with collect\$3 with (circumfer\$4 peripher\$4))  | US-PGPUB;<br>USPAT           | OR | ON  | 2006/08/08 12:14 |
| S14<br>7 | 8   | ("5352294"   "5494523"   "5516367"   "5632873"   "5645646"   "5904779"   "5935338"   "5935397").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/08/24 13:52 |
| S14<br>8 | 7   | ("6146504").URPN.   | USPAT                        | OR | ON  | 2005/08/24 13:54 |
| S14<br>9 | 1   | ("6315878").URPN.   | USPAT                        | OR | ON  | 2005/08/24 13:54 |
| S15<br>0 | 12  | ("5352294"   "5384008"   "5494523"   "5516367"   "5632873"   "5645646"   "5834737"   "5888304"   "5904779"   "5935338"   "5935397"   "6146504").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/08/24 13:54 |
| S15<br>1 | 60  | S145 and ((channel recess groove) with (circumfer\$4 peripher\$4))  | US-PGPUB;<br>USPAT           | OR | ON  | 2005/08/24 13:55 |
| S15<br>2 | 18  | daniel-timothy-j.in. buckfeller-joseph-w.in. "clabough-craig-g.in", collier-donald-w.in.  | US-PGPUB;<br>USPAT           | OR | ON  | 2005/08/24 14:14 |
| S15<br>3 | 18  | daniel-timothy-j.in. buckfeller-joseph-w.in. clabough-craig-g.in. collier-donald-w.in.  | US-PGPUB;<br>USPAT           | OR | ON  | 2005/08/24 14:17 |
| S15<br>4 | 1   | ("5841624").PN.   | US-PGPUB;<br>USPAT           | OR | OFF | 2005/08/24 15:44 |
| S15<br>5 | 1   | ("5656093").PN.   | US-PGPUB;<br>USPAT           | OR | OFF | 2005/08/24 15:44 |
| S15<br>6 | 712 | 118/718.ccls.   | US-PGPUB;<br>USPAT           | OR | ON  | 2005/08/24 19:17 |
| S15<br>7 | 268 | 118/718.ccls. and (electrode anode cathode)   | US-PGPUB;<br>USPAT           | OR | ON  | 2005/08/24 19:17 |
| S15<br>8 | 5   | ("4437324").URPN.   | USPAT                        | OR | ON  | 2005/08/24 19:21 |
| S15<br>9 | 8   | 118/718.ccls. and karla and moore   | USPAT                        | OR | ON  | 2006/01/25 12:49 |



## EAST Search History

|          |     |   |  |    |     |                  |
|----------|-----|---|--|----|-----|------------------|
| S16<br>0 | 100 | (US-20010039161-\$ or US-20010045262-\$ or US-20030089457-\$ or US-20030164226-\$ or US-20030211757-\$ or US-20040040663-\$ or US-20040089542-\$ or US-20040094095-\$ or US-20040200412-\$ or US-20040226516-\$ or US-20040229477-\$ or US-20050000449-\$ or US-20050005859-\$ or US-20050061447-\$).did. or (US-3959104-\$ or US-4502094-\$ or US-4551192-\$ or US-4645218-\$ or US-4665463-\$ or US-5103367-\$ or US-5188501-\$ or US-5252134-\$ or US-5275683-\$ or US-5280156-\$ or US-5460684-\$ or US-5463526-\$ or US-5474649-\$ or US-5486975-\$ or US-5505782-\$ or US-5529657-\$ or US-5556500-\$ or US-5560780-\$ or US-5581874-\$ or US-5589003-\$ or US-5591269-\$ or US-5606485-\$ or US-5631803-\$ or US-5634266-\$ or US-5636098-\$ or US-5656093-\$).did. or (US-5668524-\$ or US-5688358-\$ or US-5698037-\$ or US-5729423-\$ or US-5745332-\$ or US-5761023-\$ or US-5777838-\$ or US-5801915-\$ or US-5825607-\$ or US-5841624-\$ or US-5885425-\$ or US-5886863-\$ or US-5895549-\$ or US-5903428-\$ or US-5905626-\$ or US-5942039-\$ or US-6030509-\$ or US-6033478-\$ or US-6039836-\$ or US-6051815-\$ or US-6074488-\$ or US-6096161-\$ or US-6106630-\$ or US-6113736-\$ or US-6117246-\$ or US-6117349-\$ or US-6146504-\$).did. or (US-6159299-\$ or US-6201208-\$ or US-6222161-\$ or US-6235146-\$ or US-6243251-\$ or US-6284093-\$ or US-6315878-\$ or US-6344105-\$ or US-6350698-\$ or US-6490145-\$ or US-6531686-\$ or US-6554954-\$ or US-6623597-\$ or US-6682603-\$ or US-6797131-\$ or US-6813134-\$ or US-6835415-\$ or US-6839217-\$ or US-6863281-\$).did. or (JP-59052834-\$).did. or (EP-171011-\$ or JP-03013577-\$ or JP-06204180-\$ or JP-07335732-\$ or US-5589003-\$ or US-6030509-\$ or EP-1115140-\$ or JP-2002009002-\$ or KR-2002061878-\$ or US-20040040665-\$ or JP-2004253402-\$ or GB-2401722-\$ or KR-2004100712-\$).did. | US-PGPUB;<br>USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2006/01/25 12:49 |
| S16<br>1 | 1   | ("6797109").PN.   | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/08/08 11:46 |
| S16<br>2 | 24  | ("5437757"   "5447570"   "5635244"   "5641375"   "5643394"   "5656122"   "5707485"   "5788799"   "5803977"   "5805408"   "5830808"   "5891348"   "5920797"   "5922133"   "6013155"   "6051122"   "6055927"   "6070551"   "6117349"   "6158384"   "6165271"   "6200388"   "6221782"   "6406545").PN.   | US-PGPUB;<br>USPAT;<br>USOCR           | OR | ON  | 2006/08/08 11:48 |
| S16<br>3 | 0   | ("6797109").URPN.   | USPAT                                  | OR | ON  | 2006/08/08 11:50 |
| S16<br>4 | 32  | ("5252134").URPN.   | USPAT                                  | OR | ON  | 2006/08/08 12:12 |
| S16<br>5 | 917 | samsung.as. and jun.in.   | USPAT                                  | OR | ON  | 2006/08/08 12:13 |
| S16<br>6 | 28  | samsung.as. and jun.in. and wafer and hold\$3   | USPAT                                  | OR | ON  | 2006/08/08 12:13 |
| S16<br>7 | 46  | samsung.as. and jun.in. and wafer and hold\$3   | US-PGPUB;<br>USPAT                     | OR | ON  | 2006/08/08 12:13 |
| S16<br>8 | 9   | samsung.as. and jun.in. and wafer and hold\$3 and groove  | US-PGPUB;<br>USPAT                     | OR | ON  | 2006/08/08 12:13 |
| S16<br>9 | 971 | ((204/298.11) or (204/298.15)).CCLS.  | US-PGPUB;<br>USPAT                     | OR | OFF | 2006/08/08 12:14 |
| S17<br>0 | 377 | S169 and ((channel recess groove))  | US-PGPUB;<br>USPAT                     | OR | ON  | 2006/08/08 12:14 |
| S17<br>1 | 19  | ("5486975").URPN.   | USPAT                                  | OR | ON  | 2006/08/08 12:19 |

## EAST Search History

|          |    |   |                              |    |    |                  |
|----------|----|---|------------------------------|----|----|------------------|
| S17<br>2 | 0  | ("6944006").URPN.   | USPAT                        | OR | ON | 2006/08/08 12:22 |
| S17<br>3 | 19 | ("5326725"   "5376180"   "5463525"   "5486975"   "5636098"   "5740009"   "5748434"   "5762714"   "5942042"   "6039836"   "6074488"   "6077353"   "6195246"   "6284093"   "6296747"   "6364957"   "6500315"   "6554954"   "6689249").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/08 12:22 |
| S17<br>4 | 19 | ("5486975").URPN.   | USPAT                        | OR | ON | 2006/08/08 12:25 |
| S17<br>5 | 3  | ("5452177"   "5484485"   "5486975").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/08 12:27 |
| S17<br>6 | 5  | ("5405480"   "5609691"   "5630917"   "5803977"   "5863340").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/08 12:35 |
| S17<br>7 | 9  | ("5942042").URPN.   | USPAT                        | OR | ON | 2006/08/08 12:36 |
| S17<br>8 | 7  | ("4962727"   "5556500"   "5942042"   "6074518"   "6080287"   "6287435"   "6464794").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/08 12:39 |
| S17<br>9 | 1  | ("6620736").URPN.   | USPAT                        | OR | ON | 2006/08/08 12:41 |
| S18<br>0 | 5  | ("5405480"   "5609691"   "5630917"   "5803977"   "5863340").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/08 12:42 |
| S18<br>1 | 5  | ("5405480"   "5609691"   "5630917"   "5803977"   "5863340").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/08 12:42 |
| S18<br>2 | 9  | ("5942042").URPN.   | USPAT                        | OR | ON | 2006/08/08 12:42 |
| S18<br>3 | 8  | ("6077353").URPN.   | USPAT                        | OR | ON | 2006/08/08 12:52 |
| S18<br>4 | 9  | ("5688358").URPN.   | USPAT                        | OR | ON | 2006/08/08 15:17 |
| S18<br>5 | 8  | ("4844775"   "5122251"   "5292399"   "5310453"   "5356515"   "5384008"   "5401356"   "5498313").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/08 15:19 |
| S18<br>6 | 7  | ("5841624").URPN.   | USPAT                        | OR | ON | 2006/08/08 15:48 |
| S18<br>7 | 3  | "2000024437"  | EPO; JPO;<br>DERWENT         | OR | ON | 2006/08/08 15:48 |
| S18<br>8 | 58 | "0024437"   | EPO; JPO;<br>DERWENT         | OR | ON | 2006/08/08 15:49 |
| S18<br>9 | 0  | "024437"  | EPO; JPO;<br>DERWENT         | OR | ON | 2006/08/08 15:49 |
| S19<br>0 | 2  | "200024437"   | EPO; JPO;<br>DERWENT         | OR | ON | 2006/08/08 15:50 |
| S19<br>1 | 0  | ("6531686").URPN.   | USPAT                        | OR | ON | 2006/08/08 15:54 |
| S19<br>2 | 0  | ("6531686").URPN.   | USPAT                        | OR | ON | 2006/08/08 15:54 |
| S19<br>3 | 7  | ("5275683"   "5376213"   "5556476"   "5606485"   "5625526"   "5698062"   "6104596").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/08/08 15:54 |
| S19<br>4 | 1  | ("6623597").URPN.   | USPAT                        | OR | ON | 2006/08/08 15:55 |

## EAST Search History

|          |      |   |                              |    |     |                  |
|----------|------|---|------------------------------|----|-----|------------------|
| S19<br>5 | 19   | ("20020066727"   "20030013315"   "5683518"   "5848889"   "5882419"   "5920797"   "6133152"   "6159299"   "6176198"   "6231674"   "6280183"   "6344105"   "6344631"   "6350320"   "6383931"   "6464794"   "6497767"   "6589352"   "6623597").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/08 15:56 |
| S19<br>6 | 8    | ("5920797").URPN.   | USPAT                        | OR | ON  | 2006/08/08 15:58 |
| S19<br>7 | 8    | ("5920797").URPN.   | USPAT                        | OR | ON  | 2006/08/08 16:01 |
| S19<br>8 | 6    | ("4512391"   "4903754"   "5445677"   "5511608"   "5574247"   "5795215").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/08 16:01 |
| S19<br>9 | 5    | ("6344105").URPN.   | USPAT                        | OR | ON  | 2006/08/08 16:06 |
| S20<br>0 | 1    | ("6620736").URPN.   | USPAT                        | OR | ON  | 2006/08/08 16:44 |
| S20<br>1 | 7    | ("4962727"   "5556500"   "5942042"   "6074518"   "6080287"   "6287435"   "6464794").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/08 16:57 |
| S20<br>2 | 1775 | (c23c016\$.ipc. c23f023\$.ipc. h01i021\$.ipc.) and ((cover\$3 with extend\$4) and (wafer substrate semiconductor workpiece))  | EPO; JPO;<br>DERWENT         | OR | ON  | 2006/08/08 16:59 |
| S20<br>3 | 154  | (c23c016\$.ipc. c23f023\$.ipc. h01i021\$.ipc.) and ((cover\$3 with extend\$4 with (hold\$3 pedestal pedestal chuck esc susceptor table support\$3)) and (wafer substrate semiconductor workpiece))  | EPO; JPO;<br>DERWENT         | OR | ON  | 2006/08/08 17:05 |
| S20<br>4 | 1    | ("5275683").PN.   | US-PGPUB;<br>USPAT           | OR | OFF | 2006/08/08 17:05 |
| S20<br>5 | 60   | ("5275683").URPN.   | USPAT                        | OR | ON  | 2006/08/08 17:05 |
| S20<br>6 | 20   | ("5560780").URPN.   | USPAT                        | OR | ON  | 2006/08/08 17:11 |
| S20<br>7 | 19   | ("4384918"   "4480284"   "4645218"   "4665463"   "4832781"   "5055964"   "5104834"   "5151845"   "5166856"   "5191506"   "5250137"   "5275683"   "5280156"   "5284549"   "5290609"   "5306895"   "5324053"   "5350479"   "5382469").PN.         | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/08 17:14 |
| S20<br>8 | 14   | ("5969934").URPN.   | USPAT                        | OR | ON  | 2006/08/08 17:34 |
| S20<br>9 | 6    | ("5384682"   "5663865"   "5708557"   "5909354"   "5969934"   "6122159").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/08 17:36 |
| S21<br>0 | 8    | ("4537244"   "5131460"   "5421401"   "5605866"   "5725718"   "5842690"   "5885428"   "5969934").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/08 17:39 |
| S21<br>1 | 7099 | (removeable removable replaceable replacable) with (susceptor support\$3 hold\$3 table) with cover\$3   | US-PGPUB;<br>USPAT           | OR | ON  | 2006/08/09 12:09 |
| S21<br>2 | 393  | S211 same (wafer substrate workpiece semiconductor)   | US-PGPUB;<br>USPAT           | OR | ON  | 2006/08/09 12:09 |
| S21<br>3 | 2258 | (removeable removable replaceable replacable) with (susceptor support\$3 hold\$3 table) with cover\$3   | EPO; JPO;<br>DERWENT         | OR | ON  | 2006/08/09 12:09 |
| S21<br>4 | 72   | S213 same (wafer substrate workpiece semiconductor)   | EPO; JPO;<br>DERWENT         | OR | ON  | 2006/08/09 12:47 |
| S21<br>5 | 2    | S214 and (sputter\$4 spatter\$4 physical)   | EPO; JPO;<br>DERWENT         | OR | ON  | 2006/08/09 13:13 |
| S21<br>6 | 1    | ("5863396").PN.   | US-PGPUB;<br>USPAT           | OR | OFF | 2006/08/09 12:14 |

## EAST Search History

|          |     |   |                              |    |     |                  |
|----------|-----|---|------------------------------|----|-----|------------------|
| S21<br>7 | 7   | ("5863396").URPN.   | USPAT                        | OR | ON  | 2006/08/09 12:14 |
| S21<br>8 | 7   | ("5863396").URPN.   | US-PGPUB;<br>USPAT           | OR | ON  | 2006/08/09 12:14 |
| S21<br>9 | 7   | ("4704306"   "4830723"   "4988424"   "5154797"   "5223108"<br>  "5380558"   "5405652").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 12:14 |
| S22<br>0 | 7   | ("5863396").URPN.   | USPAT                        | OR | ON  | 2006/08/09 12:16 |
| S22<br>1 | 5   | ("5117121"   "5415753"   "5656093"   "5863396"  <br>"6030513").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 12:43 |
| S22<br>2 | 1   | ("6214413").URPN.   | USPAT                        | OR | ON  | 2006/08/09 12:43 |
| S22<br>3 | 117 | S212 and (sputter\$4 spatter\$4 physical)   | US-PGPUB;<br>USPAT           | OR | ON  | 2006/08/09 13:13 |
| S22<br>4 | 12  | ("4427516"   "4491496"   "4526644"   "4612432"   "4623417"<br>  "4693777"   "4793975"   "5223113"   "5236151"  <br>"5252892"   "5272417"   "5366585").PN.             | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 13:16 |
| S22<br>5 | 52  | ("4793975").URPN.   | USPAT                        | OR | ON  | 2006/08/09 13:18 |
| S22<br>6 | 13  | ("4123571"   "4439232"   "4499354"   "4507189"   "4767666"<br>  "4793975"   "5121705"   "5443892"   "5498442"  <br>"5614447"   "5685906"   "5886863"   "5985024").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2006/08/09 13:33 |
| S22<br>7 | 1   | ("5668524").PN.   | US-PGPUB;<br>USPAT           | OR | OFF | 2006/08/09 13:36 |
| S22<br>8 | 7   | ("5668524").PN.   | EPO; JPO;<br>DERWENT         | OR | OFF | 2006/08/09 13:36 |